



PTO/SB/08a (08-03)

Approved for use through 07/31/2006. OMB 0651-0031  
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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet

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of

8

**Complete If Known**

Application Number	10/751,009
Filing Date	12/31/2003
First Named Inventor	Samuel P. McManus et al.
Art Unit	Unassigned
Examiner Name	Unassigned
Attorney Docket Number	SHE0074.00

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
QA	A	US- 2002/0102671	08/01/2002	Janda et al.	
	B	US- 2003/0157582	08/21/2003	Roisin et al.	
	C	US- 3,551,384	12/29/1970	Zeh	
	D	US- 3,668,183	06/06/1972	Hoy et al.	
	E	US- 3,779,986	12/18/1973	Smith et al.	
	F	US- 4,980,514	12/25/1990	Sanderson et al.	
	G	US- 4,992,204	02/12/1991	Kluger et al.	
	H	US- 5,002,998	03/26/1991	Carey et al.	
	I	US- 5,045,396	09/03/1991	Lin et al.	
	J	US- 5,138,095	08/11/1992	Speranza et al.	
	K	US- 5,149,806	09/22/1992	Moren et al.	
	L	US- 5,151,470	09/29/1992	Sanders et al.	
	M	US- 5,580,923	12/03/1996	Yeung et al.	
	N	US- 5,674,531	10/07/1997	Ahlers et al.	
	O	US- 5,723,289	03/03/1998	Eaton et al.	
	P	US- 5,733,968	03/31/1998	Moszner et al.	
	Q	US- 5,858,660	01/12/1999	Eaton et al.	
	R	US- 5,932,641	08/03/1999	Blanchard et al.	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
QA	V	CA 1148166	06/14/1983	Ausonia Farmaceutici s.r.l.		
	W	DE 10126158	12/12/2002	Novira Chem GmbH		
	X	DE 3334209	04/04/1985	Henkel KGaA		
	Y	EP 0361704	04/04/1990	Imperial Chem. Industries PLC		
	Z	EP 0 400 486	12/05/1990	Sumitomo Pharm. Co., Ltd.		

Examiner  
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Considered

6/16/06

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.<sup>1</sup> Applicant's unique citation designation number (optional).<sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.<sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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Sheet	2	of	8	Attorney Docket Number	SHE0074.00
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		Country Code <sup>3</sup>	Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
Q/N	AA	EP	0420232	04/03/1991	European Pharmacy Sri		
	AB	EP	0457128	11/21/1991	Mobay Corporation		
	AC	EP	0605963	07/13/1994	Ortho Pharm. Corp.		
	AD	EP	0634393	01/18/1995	Ivoclar Ag		
	AE	EP	1174436	01/23/2002	Seiko Epson Corp.		

Examiner Signature		Date Considered	6-16-06
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Sheet 3 of 8

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Filing Date	12/31/2003
First Named Inventor	Samuel P. McManus et al.
Art Unit	Unassigned
Examiner Name	Unassigned
Attorney Docket Number	SHE0074.00

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		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
Qn	AF	EP 1310533	05/14/2003	Agfa-Gevaert		
	AG	JP 1-255620	10/12/1989			
	AH	JP 2000-129568	05/09/2000			
	AI	JP 2001-255620	09/21/2001			
Qn	AJ	JP 2002-234940	08/23/2002			

Date  
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Sheet

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of

8

Application Number

10/751.009

Filing Date

12/31/2003

**First Named Inventor**

Samuel P. McManus et al.

**Art Unit**

## Unassigned

**Examiner Name**

Unassigned

Attorney Docket Number

**SHE0074.00**

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		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
91	AK	JP 2-283659	11/21/1990			
↓	AL	JP 60-212435	10/24/1985			
↓	AM	JP 6-324421	11/25/1994			
↓	AN	JP 6-49471	02/22/1994			
91	AO	JP 6-9737	01/18/1994			

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Signature**

1. Prognosis

Date	Considered
11/1/80	11/1/80
11/2/80	11/2/80
11/3/80	11/3/80
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11/5/80	11/5/80
11/6/80	11/6/80
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11/27/80	11/27/80
11/28/80	11/28/80
11/29/80	11/29/80
11/30/80	11/30/80

6/6/08

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Sheet 5 of 8

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Filing Date	12/31/2003
First Named Inventor	Samuel P. McManus et al.
Art Unit	Unassigned
Examiner Name	Unassigned
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[illegible]

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		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
Q1 ↓ Q1	AP	JP 7-159917	06/23/1995			
	AQ	JP 7-62279	03/07/1995			
	AR	JP 7-62594	03/07/1995			
	AS	WO 00/17398	03/30/2000	Nexstar Pharm. Inc.		
	AT	WO 00/44808	08/03/2000	Hubbell		

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		Country Code <sup>3</sup>	Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
Q	AU	WO	01/04179	01/18/2001	The Dow Chem. Co.		
	AV	WO	01/04183	01/18/2001	The Dow Chem. Co.		
J	AW	WO	01/92584	12/06/2001	Eidgenossische Tech. Hochschule		
	AX	WO	03/004471	01/16/2003	Ciba Specialty Chem. Holding, Inc.		
Q	AY	WO	03/008646	01/30/2003	Surmodics, Inc.		

Examiner Signature		Date Considered	6/16/06
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Sheet	7	of	8
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QJ	AZ	WO 03/034995	05/01/2003	The Scripps Res. Inst.		
	BA	WO 90/00049	01/11/1990	Cetus Corp.		
	BB	WO 95/21631	08/17/1995	Nycomed Imaging AS		
	BC	WO 96/33156	10/24/1996	Lambson Fine Chem. Ltd.		
	BD	WO 96/33157	10/24/1996	Lambson Fine Chem. Ltd.		

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		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
JH	BE	WO 97/49664	12/31/1997	Lambson Fine Chem. Ltd.		
	BF	WO 98/53857	12/03/1998	Mallinckrodt Med., Inc.		

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Sheet 1 of 2

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
Qn	BG	CORDOVA ET AL., "A Highly Chemo- and Stereoselective Synthesis of B-Keto Esters via a Polymer-Supported Lipase Catalyzed Transesterification," J. Org. Chem. 2001, Vol. 66, 1906-1909.	
	BH	HAAG ET AL., "New Polyethylene Glycol Polymers as Ketal Protecting Groups - A Polymer Supported Approach to Symmetrically Substituted Spiroketal," Synthetic Communications (2001), Vol. 31, No. 19, pp. 2965-2977.	
	BI	HAI ET AL., "Polymerization of Diaspirin Cross-Linked Hemoglobin (DCLHb) with Water-Soluble, Nonimmunogenic Polyamide Cross-Linking Agents," Bioconjugate Chem. (1999), Vol. 10, pp. 1013-1020.	
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				Application Number	10/751,009
				Filing Date	12/31/2003
				First Named Inventor	Samuel P. McManus et al.
				Art Unit	Unassigned
				Examiner Name	Unassigned
Sheet	2	of	2	Attorney Docket Number	SHE0074.00

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
QA	BQ	SELIGER ET AL., "Two-carrier liquid-phase synthesis of main-chain liquid crystalline oligomers and characterization of the products," Fresenius J. Anal. Chem. (1995), Vol. 351, pp. 260-270.	
	BR	NOF Corporation, Catalog 2003 - 1st: PEG Derivatives, Phospholipid and Drug Delivery Materials for Pharmaceuticals, Tokyo, Japan, 1-46.	
	BS	Shearwater Polymers, Inc., Catalog 1995: Polyethylene Glycol Derivatives, Huntsville, AL, pp. 2-49.	
	BT	Shearwater Polymers, Inc., Catalog 1997-1998: Polyethylene Glycol Derivatives, Huntsville, AL, pp. 1-53.	
	BU	Shearwater Polymers, Inc., Catalog 2001: Polyethylene Glycol and Derivatives for Biomedical Applications, Huntsville, AL, pp. 1-17.	
QA	BV	Nektar Therapeutics, Nektar Molecule Engineering Catalog 2003: Polyethylene Glycol and Derivatives for Advanced PEGylation, pp. 1-20.	

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